



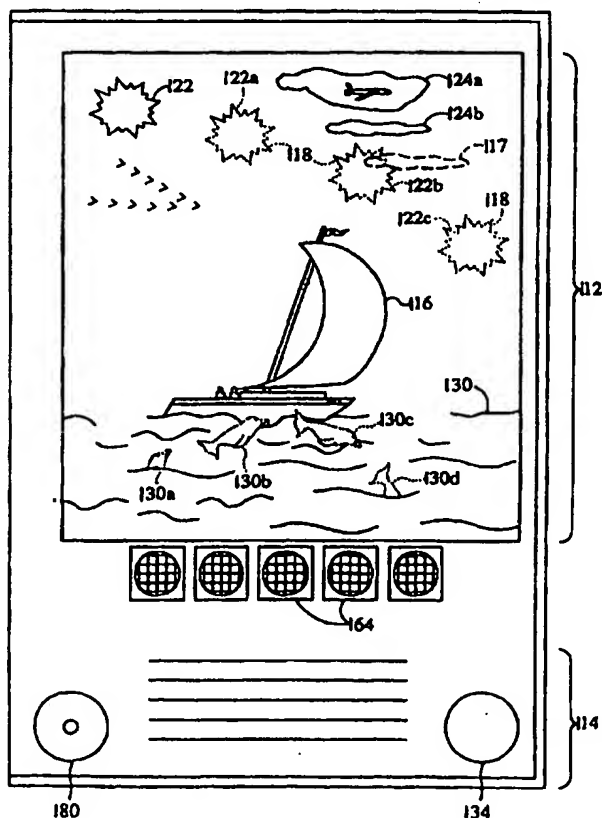
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(54) Title: ELECTROLUMINESCENT DISPLAY APPARATUS

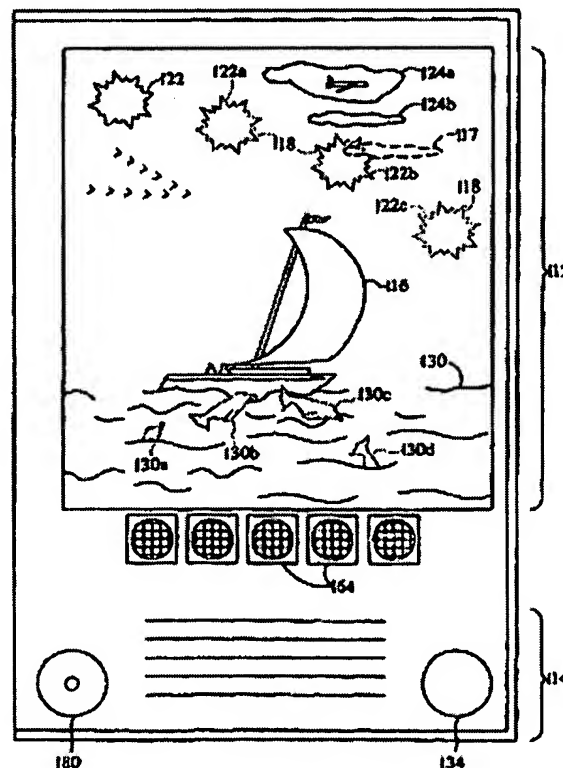
(57) Abstract

A panel, page or substrate (112) is provided having a tier of electroluminescent (EL) material which forms a pattern corresponding to a series of images (130a-d). When illuminated in accord with a predetermined sequence, the series of images provide an illusion of movement. A sound generator (134) is provided to produce a predetermined audible response associated with the predetermined sequence. One or more flexible membrane switches (164) are coupled to simultaneously activate both the EL material and the sound generator when depressed. The panel may be embodied as a flexible web that is adapted to roll up over a spring loaded shaft.



ELECTROLUMINESCENT DISPLAY APPARATUS**Patent number:** WO9803962**Publication date:** 1998-01-29**Inventor:** JOHNSON WILLIAM ROBIN; HEROPOULOS GEORGE W; TORMA TAMAS L**Applicant:** JUNKYARD DOGS LTD (US)**Classification:****- international:** G06F1/16; G06F3/02; G06F3/033; G09B5/06; G09F13/22; H01H13/702; G06F1/16; G06F3/02; G06F3/033; G09B5/00; G09F13/22; H01H13/70; (IPC1-7): G09G3/12; A47F11/06; G09B5/00; G09F13/00; G09G3/04; G09G3/34**- european:** G06F1/16D; G06F3/02A; G06F3/033D2; G09B5/06C; G09F13/22; H01H13/702**Application number:** WO1997US12814 19970723**Priority number(s):** US19960685236 19960723; US19960685238 19960723**Also published as:** WO9803962 (A1)
 EP0912972 (A1)
 EP0912972 (A1)
 AU733071 (B2)**Cited documents:** US5652930
 US5597183
 US5484292
 US5469020
 US5437552
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A panel, page or substrate (112) is provided having a tier of electroluminescent (EL) material which forms a pattern corresponding to a series of images (130a-d). When illuminated in accord with a predetermined sequence, the series of images provide an illusion of movement. A sound generator (134) is provided to produce a predetermined audible response associated with the predetermined sequence. One or more flexible membrane switches (164) are coupled to simultaneously activate both the EL material and the sound generator when depressed. The panel may be embodied as a flexible web that is adapted to roll up over a spring loaded shaft.



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